

FIG.2

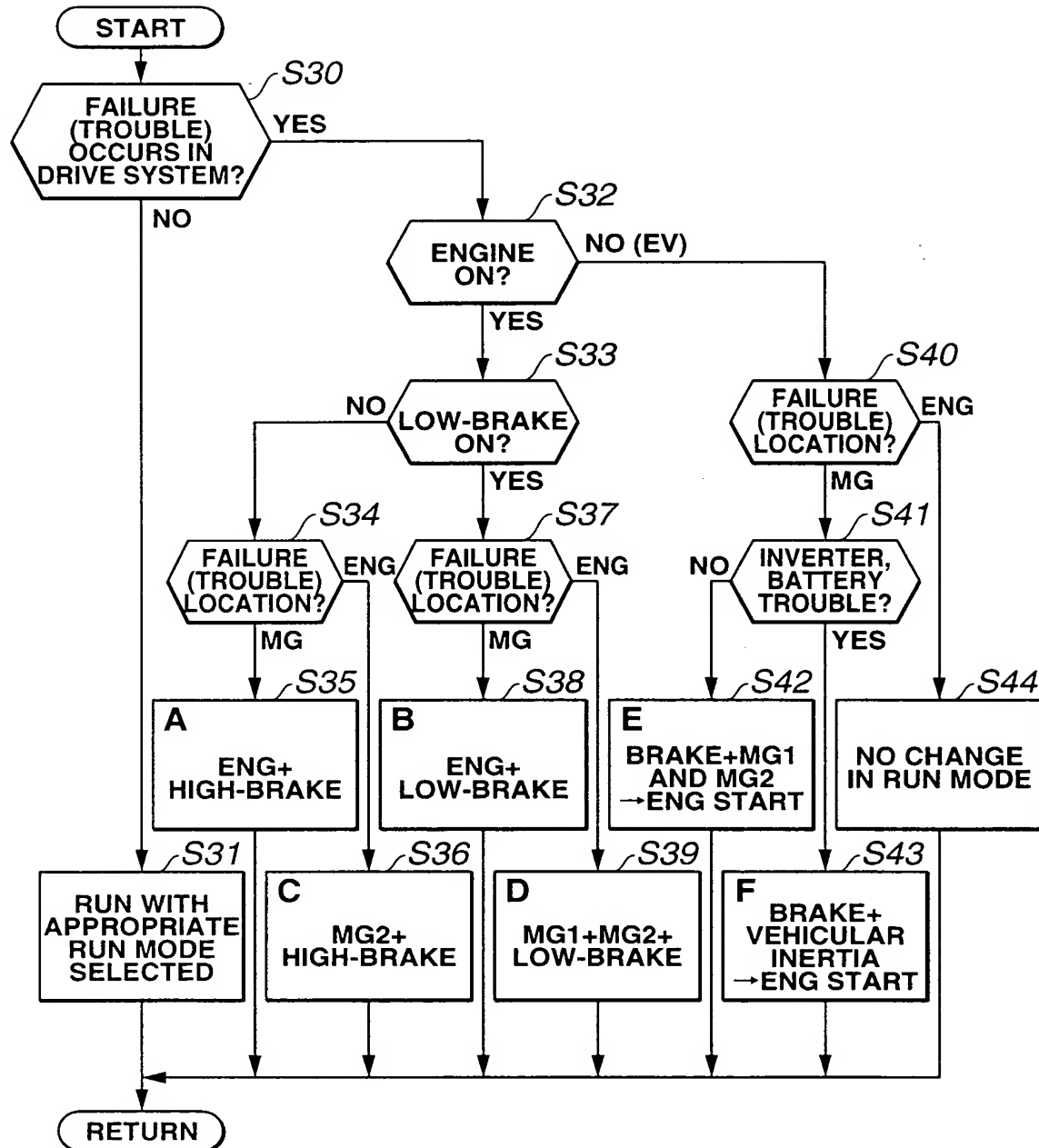


FIG.3

| RUN MODE | | | | | | |
|---------------------|--|--|--------------------------------------|-------------------------------------|--|---|
| TROUBLE LOCATION | BRK CLUTCHING DIRECT POWER DISTRIBUTION RUN | High-BRK CLUTCHING RUN (ENG-on) | Low-BRK CLUTCHING RUN (ENG-on) | MGin+MGout (EV) RUN (ENG-off) | High-BRK CLUTCHING EV RUN (ENG-off) | Low-BRK CLUTCHING EV RUN (ENG-off) |
| | MGin (=MG1) | A High-BRK CLUTCHING+ENG | | | B Low-BRK CLUTCHING ENG (+MGout) | |
| | | | | | ENGINE START WITH Low-BRK CLUTCHING+ MGout | |
| | | | | | ENGINE START WITH High-BRK CLUTCHING+ MGout | |
| | MGout (=MG2) | C High-BRK CLUTCHING+MGout | | | D Low-BRK CLUTCHING+ MGin+MGout | |
| | INVERTER OR BATTERY | | | | E ENGINE START Low-BRK CLUTCHING+ MGin | |
| | ENG | F ENGINE START WITH Low-BRK OR High-BRK+ VEHICULAR INERTIA | | | NO CHANGE IN RUN MODE | |

FIG.4

| TROUBLE LOCATION | TROUBLE DETERMINATION |
|--------------------------------------|--|
| MG INNER (ROTOR) MG OUTER (ROTOR) | 1) DETERMINE MG ERROR ACCORDING TO MC FAILURE SIGNAL 2) DETERMINE ERROR FROM A RESULT OF COMPARISON OF COMMAND REVOLUTION SPEED AND OUTPUT AXLE REVOLUTION SPEED 3) DETERMINE ERROR FROM A RESULT OF COMPARISON BETWEEN COMMANDED TORQUE AND A TIME DIFFERENTIAL VALUE OF OUTPUT SPEED |
| INVERTER | 1) DETERMINE INV ERROR ACCORDING TO MC FAIL SIGNAL 2) DETERMINE INV ERROR BY COMPARING POWER ON ERROR (CURRENT AND VOLTAGE) AT THE DC SIDE POWER SUPPLY (CURRENT/VOLTAGE) WITH OUTPUT ERROR AT AC SIDE |
| ENGINE | 1) DETERMINE ERROR ACCORDING TO FAILURE SIGNAL OF ENGINE CONTROLLER 2) DETERMINE ERROR BY COMPARING A COMMAND SPEED WITH A UNIT INPUT SPEED |
| BATTERY | 1) DETERMINE ERROR ACCORDING TO FAILURE SIGNAL OF BATTERY CONTROLLER 2) DETERMINE ERROR BY COMPARING HCM ACCUMULATED VALUE WITH BATTERY OUTPUT VOLTAGE |

FIG.5

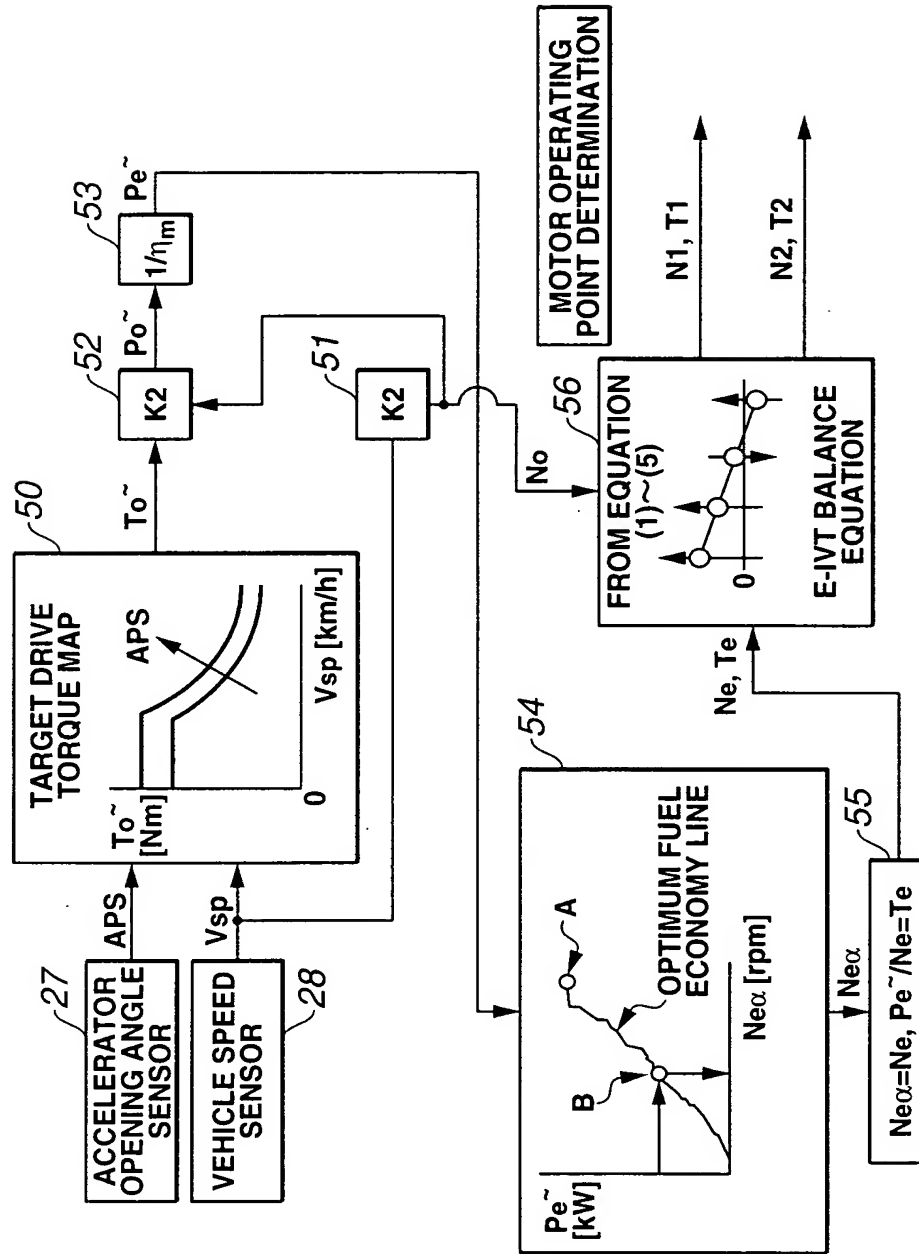


FIG.6

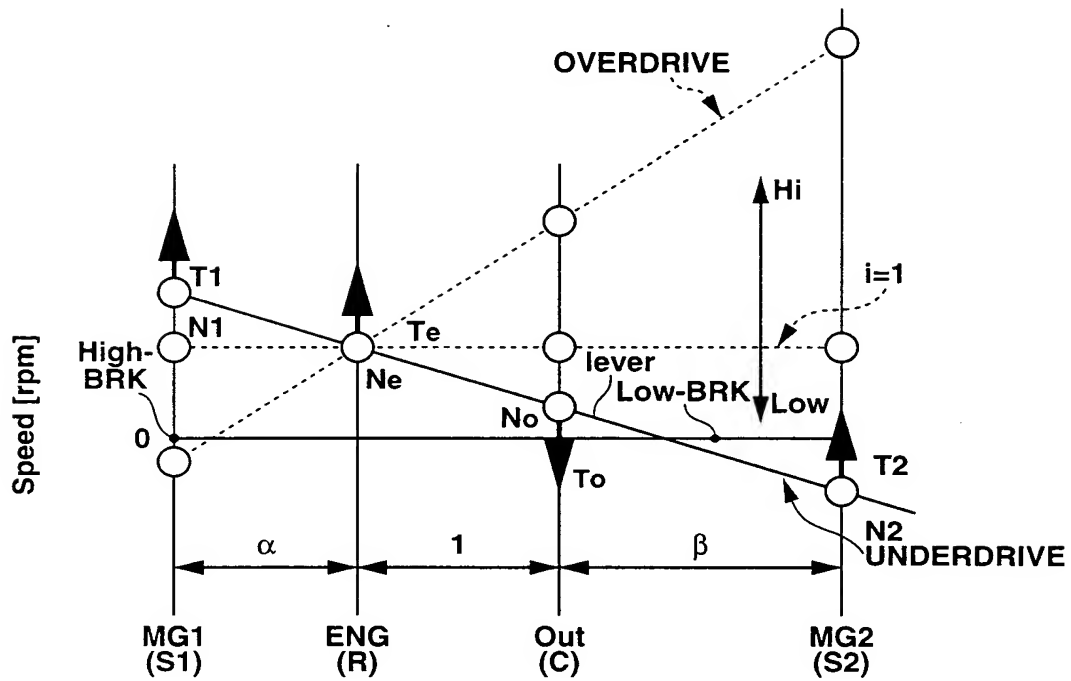


FIG.7

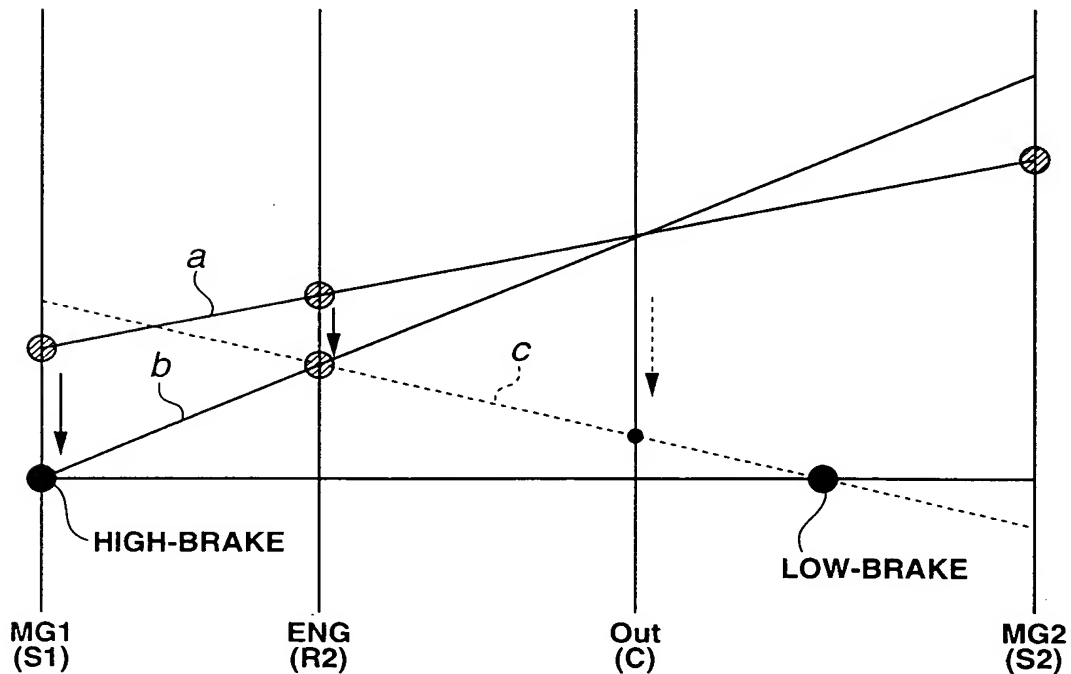


FIG.8

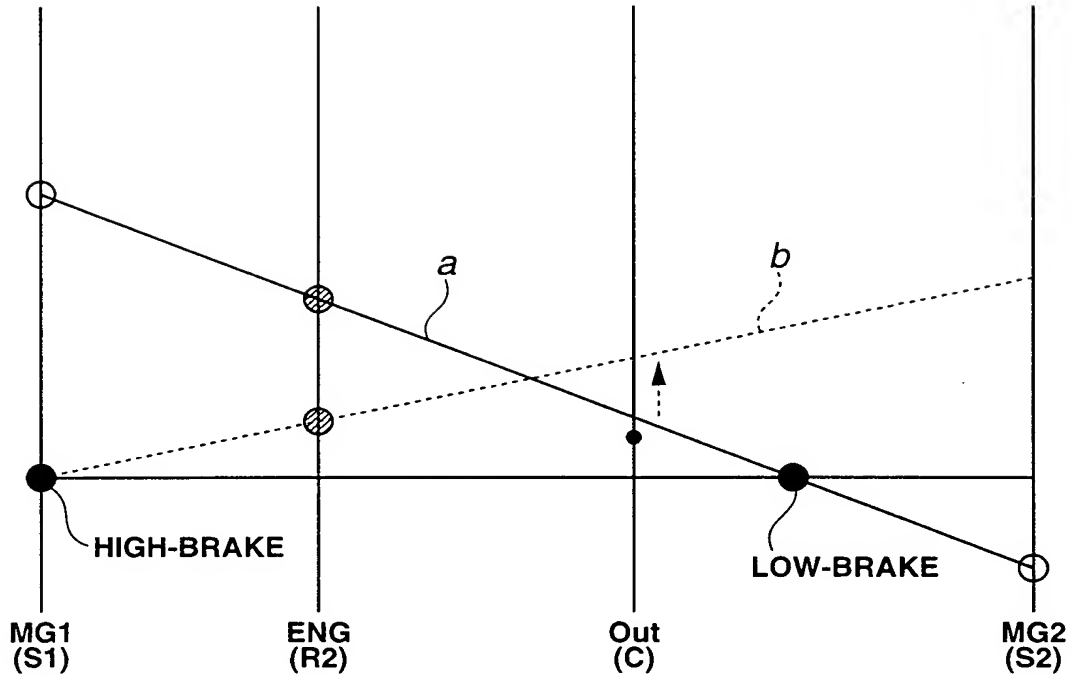


FIG.9

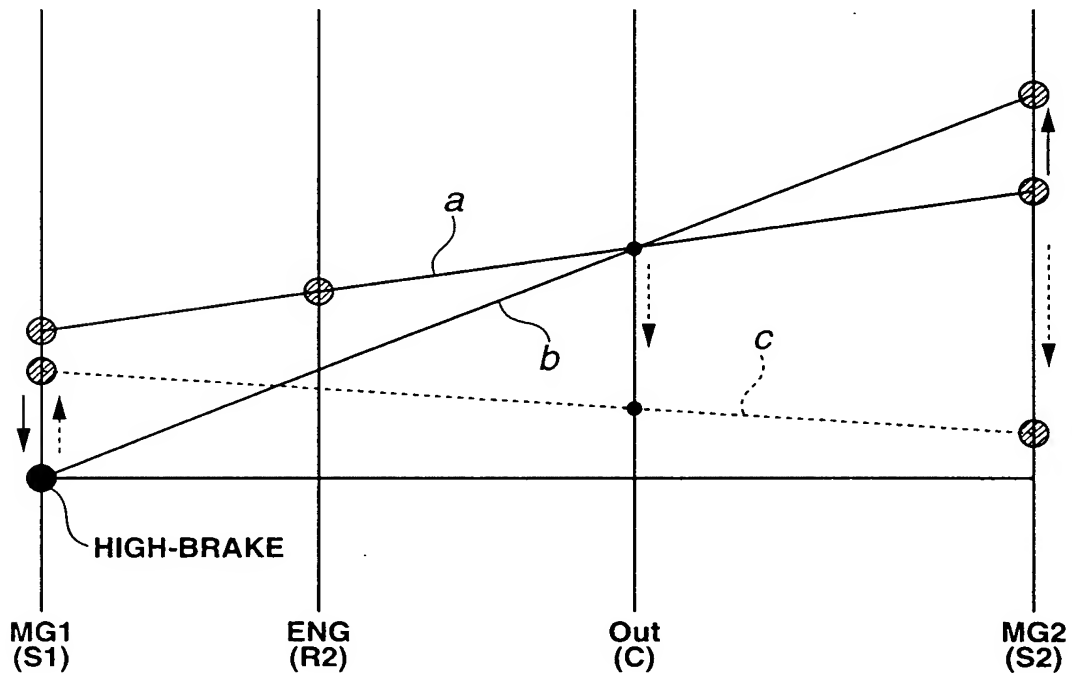


FIG.10

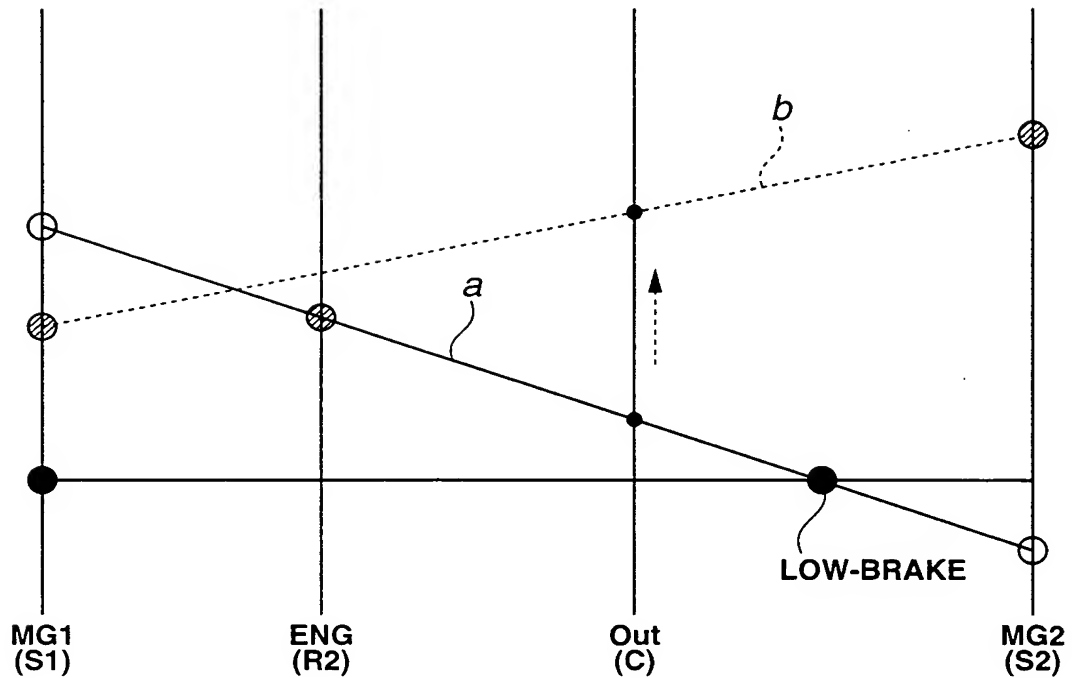


FIG.11

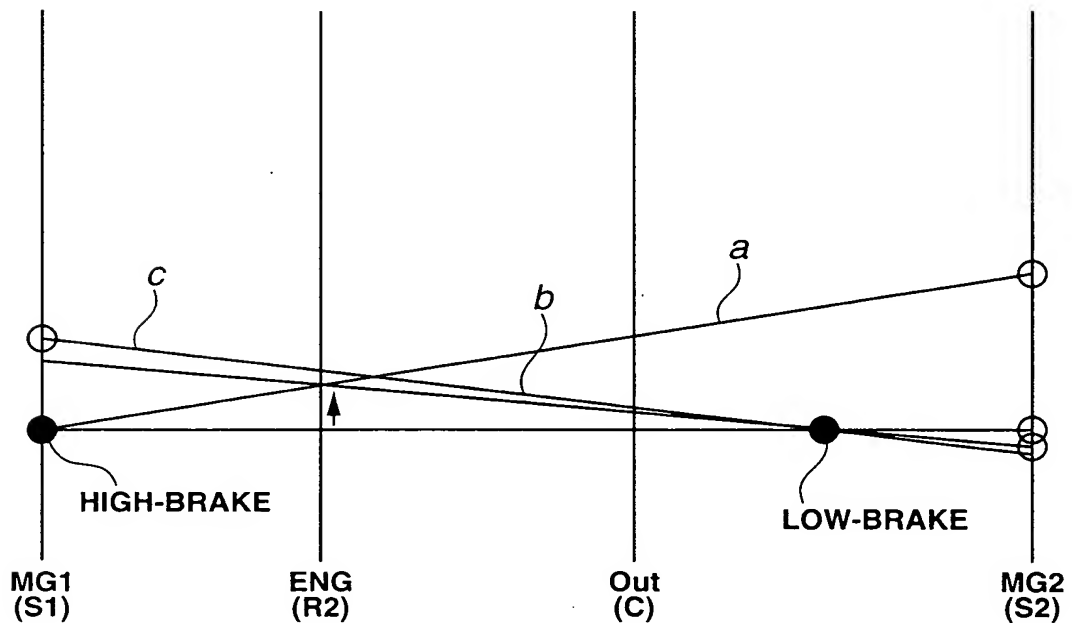


FIG.12

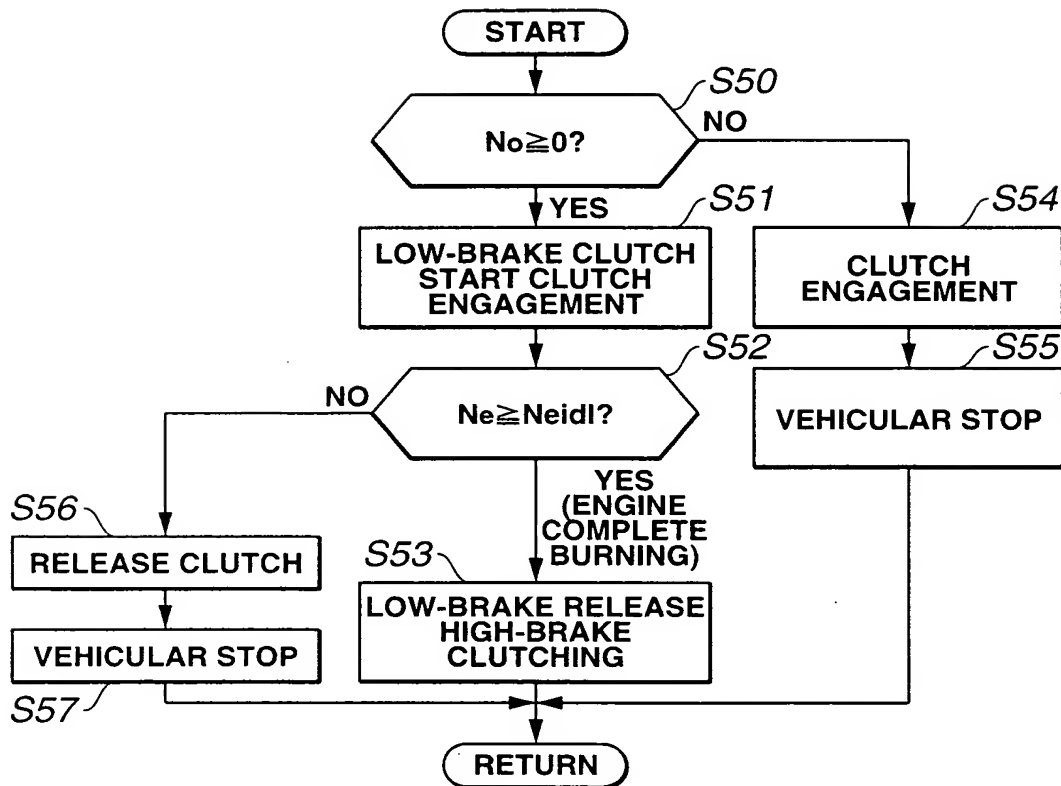


FIG.13

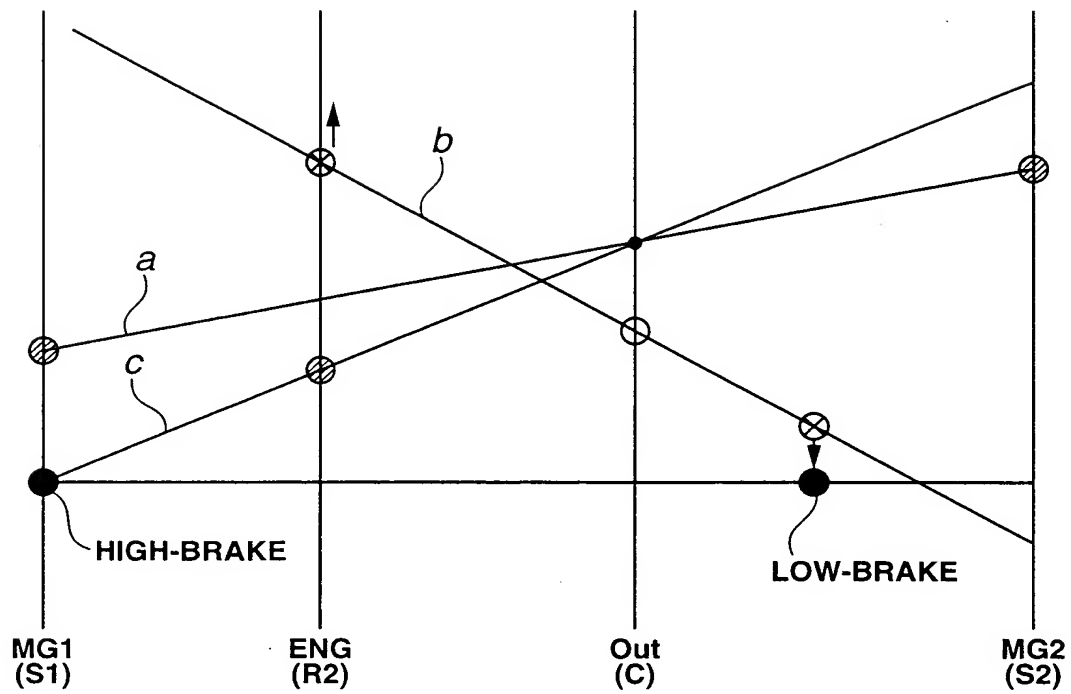


FIG.14

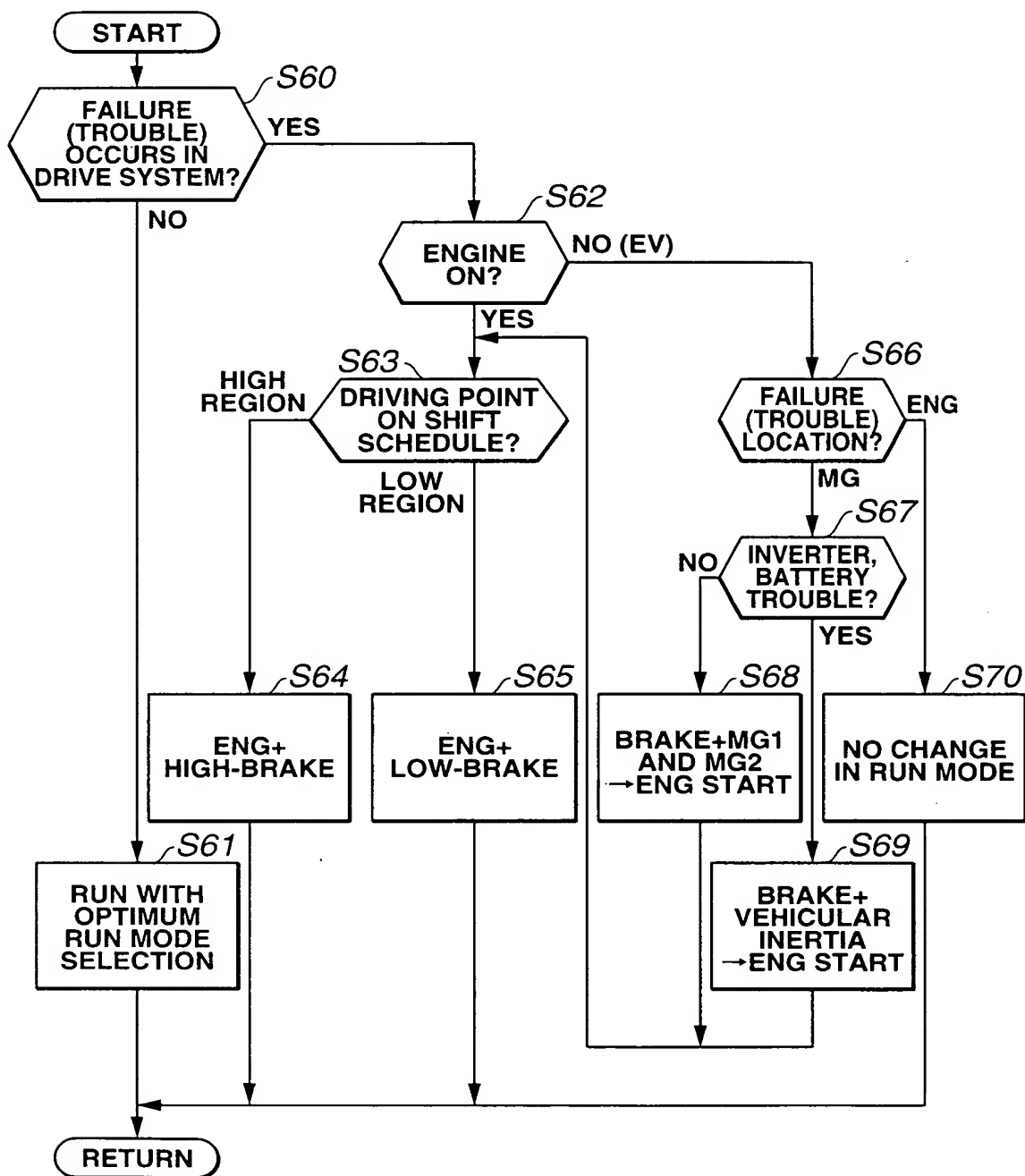


FIG.15

